ABSTRACT OF THE DISCLOSURE

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internal-meshing the oscillating Ιn planetary gear system of the present invention, a space formed between a external gear (52) and a internal gear (8) is filled up with a grease (14), which contains base oil whose kinetic viscosity is equal to or higher than 10 mm^2/s at 100 °C and lithium complex thickener synthesized from adipic Such construction of the oscillating internal-meshing planetary gear system of the present invention provides a power transmission system using a trochoidal tooth profile gear and a circular-arc tooth profile gear that enables to realize a long life and keeping a high efficiency, even without applying grease containing sodium nitrite.